

# METHOD FOR MEASUREMENT OF COMPOSITE HEAT DAMAGE WITH INFRARED SPECTROSCOPY

## ABSTRACT OF THE DISCLOSURE

5 A non-destructive method determines an amount of heat exposure to a resin-fiber  
composite substrate. A value of infrared energy reflected by a composite substrate is  
determined. The value of infrared energy reflected, or conversely absorbed, is correlated to a  
degree or amount of heat exposure. According to an aspect of the present invention, one  
method utilizes an infrared spectrometer to determine infrared absorbance of a composite  
substrate. The infrared energy of the reflected beam is then compared with the pre-  
10 determined value of infrared energy reflected off a reference heat damaged composite  
substrate to determine the amount of heat exposure.

